Signature



PTO/SB/05 (08-00) Please type a plus sign (+) inside this box ——

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY **PATENT APPLICATION TRANSMITTAL**

424P045 Attorney Docket No. Katsuya Sangu First Inventor Positioning apparatus used in a process for producing multi-layered printed circuit.

(Only for new nonprovision	nal applications under 37 CFR 1.53(b)) Ex	press Mail Label No	EI72459	9923US	986
APPLICATION ELEMENTS			ASSISTANT Commissioner for Patents Box Patent Application			
See MPEP chapter 600 cond	cerning utility patent application cont	ents.		Washington, D	C 20231	
1. X Fee Transmittal F (Submit an original and a) 2. Applicant claims is See 37 CFR 1.27 3. X Specification (preferred arrangement) - Descriptive title - Cross Reference - Statement Region - Statement Region - Reference to see or a computer point - Background of - Brief Summary - Brief Description - Detailed Description - Detailed Description	,	Washington, DC 20231 7. CD-ROM or CD-R in duplicate, large table or Computer Program (<i>Appendix</i>) 8. Nucleotide and/or Amino Acid Sequence Submission (<i>if applicable, all necessary</i>) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. X Assignment Papers (cover sheet & document(s))				
- Claim(s) - Abstract of the	Disclosure		37 CFR 3.73(b) Statement Power of			
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 6]			10. (when there is an assignee) Attorney 11. English Translation Document (if applicable)			
Oath or Declaration	[Total Pages 4]		12. Information D		Copies o	
a. X Newly exect	uted (original or copy) prior application (37 CFR 1.63 (d)) tion/divisional with Box 17 completed	d)	13. Statement (IL	•	Citations EP 503)	
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76			15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Other:			
17. If a CONTINUING APPLI or in an Application Data She Continuation Prior application information	CATION, check appropriate box, and pet under 37 CFR 1.76: Divisional Continuation-in-part Examiner		ne requisite information be of prior application No Group / Art Unit		-	
Box 5b, is considered a part of	ONAL APPS only: The entire disclosur f the disclosure of the accompanying c relied upon when a portion has been in	ontinuatio	n or divisional application :	and is hereby inco	rporated by refe	under rence.
	18. CORRESP	ONDENC	E ADDRESS			
Customer Number or Bar Cod	e Label — Unsert Customer No. or At	lach bar code	or X	. Corresponden	ce address below	
Name	Kevin S. Lemack					
	Nields & Lemack					
Address	176 E. Main Street	- Suit	e 8			
City	Westboro	- 1	ate MA	Zip Co	de 01581	
Country	U.S.A.	Teleph			(508) 898	 8-2020
Name (Print/Type)	Kevin %. Lemack		Registration No. (Att		32,579	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PTO/SB/17 (11-00)
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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

(\$)

TOTAL AMOUNT OF PAYMENT

u ļ. 910.00

Complete if Known					
Application Number	Not yet assigned				
Filing Date	Herewith By Express Mail				
First Named Inventor	Katsuya Sangu				
Examiner Name	Not yet assigned				
Group Art Unit	Not yet assigned				
Attorney Docket No.	424P045				

METHOD OF PAYMENT	FEE CALCULATION (continued)				
1. X The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:	3. ADDITIONAL FEES				
Deposit Deposit	Large Small				
Account Number 14-0930	Entity Entity Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	Fee Paid			
Deposit Account Name Nields & Lemack	105 130 205 65 Surcharge - late filing fee or oath				
X Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet				
Applicant claims small entity status	139 130 139 130 Non-English specification				
See 37 CFR 1 27	147 2,520 147 2,520 For filing a request for ex parte reexamination				
2. X Payment Enclosed:	112 920* 112 920* Requesting publication of SIR prior to				
Check Credit card Money Other Other	Examiner action				
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action				
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month				
Large Entity Small Entity	116 390 216 195 Extension for reply within second month				
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 890 217 445 Extension for reply within third month				
101 710 201 355 Utility filing fee \$710	118 1,390 218 695 Extension for reply within fourth month				
106 320 206 160 Design filing fee	128 1,890 228 945 Extension for reply within fifth month				
107 490 207 245 Plant filing fee	119 310 219 155 Notice of Appeal				
108 710 208 355 Reissue filing fee	120 310 220 155 Filing a brief in support of an appeal				
114 150 214 75 Provisional filing fee	121 270 221 135 Request for oral hearing				
011DTOTAL (4) (6) 710 00	138 1,510 138 1,510 Petition to institute a public use proceeding				
SUBTOTAL (1) (\$) 710.00	140 110 240 55 Petition to revive - unavoidable				
2. EXTRA CLAIM FEES Fee from	141 1,240 241 620 Petition to revive - unintentional				
Extra Claims below Fee Paid	142 1,240 242 620 Utility issue fee (or reissue)				
Total Claims 20 -20** = 0 X 18 = 0	143 440 243 220 Design issue fee				
Claims	144 600 244 300 Plant issue fee				
Multiple Dependent 270 = 0	122 130 122 130 Petitions to the Commissioner				
Large Entitle Co. 11 T. 11	123 50 123 50 Processing fee under 37 CFR 1.17(q)				
Large Entity Small Entity Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt				
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)	\$40			
102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection (37 CFR § 1 129(a))				
104 270 204 135 Multiple dependent claim, if not paid 109 80 209 40 ** Reissue independent claims over original patent	149 710 249 355 For each additional invention to be examined (37 CFR § 1.129(b))				
110 18 210 9 ** Reissue claims in excess of 20	179 710 279 355 Request for Continued Examination (RCE)				
and over original patent	169 900 169 900 Request for expedited examination of a design application				
SUBTOTAL (2) (\$) 160.00	Other fee (specify)				
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40	0.00			

SUBMITTED BY					Complete (if applicable)		
Name (Print/Type)	Kevin %. Lemack	Registration No. (Attorney/Agent)	32,579	Telephone	(508) 898-1818		
Signature	Mal.			Date	3/12/01		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Katsuya Sangu, Ryoichi Ida, Katsumi Momose and Michitomo Koda

For: POSITIONING APPARATUS USED IN A PROCESS FOR PRODUCING MULTI-LAYERED PRINTED CIRCUIT BOARD AND METHOD OF USING THE SAME

Assistant Commissioner of Patents and Trademarks Washington, D.C. 20231 Sir:

LETTER

The above-identified applicants enclose for filing a patent application entitled "POSITIONING APPARATUS USED IN A PROCESS FOR PRODUCING MULTI-LAYERED PRINTED CIRCUIT BOARD AND METHOD OF USING THE SAME". Said attached patent application includes (1) Patent Application Transmittal Letter (1-Page); (2) Patent Application: 18-Page Specification (including 6-Pages of Claims (20) and 1-Page Abstract), 6-sheets of A4 size formal drawings and an executed Declaration and Power of Attorney (4-Pages); (3) Fee Transmittal Form (1-Page), together with a check in the amount of \$910.00 in payment of the Filing Fee and Recording Fee; and (4) Recordation Form cover sheet (1-Page); Assignment (1-Page).

All correspondence concerning this application should be mailed to:

Kevin S. Lemack Nields & Lemack 176 E. Main Street - Suite 8 Westboro, Massachusetts 01581

Respectfully submitted,

Kevin S. Lemack Attorney for Applicant Registration No. 32,579

Date: March 12, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Katsuya Sangu, et al.

Serial No.

: Not yet assigned

:

Filed

Herewith By Express Mail

For

POSITIONING APPARATUS USED IN A PROCESS FOR PRODUCING MULTI-LAYERED PRINTED CIRCUIT BOARD

AND METHOD OF USING THE SAME

Examiner

Not yet assigned

Art Unit

Not yet assigned

Attorney

Docket No.

424P045

Type of paper

Letter

"EXPRESS MAIL" MAILING LABEL NO. EI724599923US DATE OF DEPOSIT: March 12, 2001

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Assistant Commissioner of Patents and Trademarks, **BOX: PATENT APPLICATION**, Washington, D.C. 20231.

Ann Marie Mahan

Name of person mailing paper or fee

Signature of person mailing paper or fee